

SOKOLOVA, Yevgeniya Nikolayevna; DROZHIN, Yu.N., red.; VOLCHEK,  
V.L., tekhn.red.

[To the young physicist] IUnomu fiziku. Izd.2., perer.  
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959.  
292 p. (MIRA 12:8)  
(Physics--Juvenile literature)

PERYSHKIN, A.V.; ROSHOVSKAYA, Kh.D.; SOKOLOVA, Ye.N.; SHAKHMAYEV,  
N.M. Prinimal uchastiye KRAUKLIS, V.V.; TSIKALOV, V.A., red.;  
POLUKAROVA, Ye.K., tekhn. red.

[Methodology of teaching physics in eight-year schools] Metodika  
prepodavaniia fiziki v vos'miletnei shkole; posobie dlia  
uchitelei i studentov pedvuzov. Moskva, Izd-vo Akad. pedagog.  
nauk RSFSR, 1963. 317 p. (MIRA 16:10)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR  
(for Peryshkin).  
(Physics--Study and teaching)

SOKOLOVA, Ye.N.

Development of writing habits in elementary school students.  
Vop. psikhол. 9 no.5:140-146 S-0 '63. (MIRA 17:2)

1. Pedagogicheskiy institut imeni V.I. Lenina, Moskva.

MOZHURNIK, A.T.; MASHALOVA, O.R., NOKOLOVA, Ye.N.

Effect of cystamine on the manifestation of pancytopenic syndrome  
of the acute radiation sickness in dogs. Radiobiologija 5  
no.4:621-623 '65. (MIRA 18:9)

I. Vojenno-meditsinskaya ordena Lenina akademiya imeni S.M.  
Kirova, Leningrad.

ZEYEMAN, Miloslav[Seeman, Miloslav], prof. doktor med. nauk;  
SOKOLOVA, Ye.O.[translator]; TRUTNEV, V.K., zasl. deyatel'  
nauki, prof.[deceased], red.; LYAPIDEVSKIY, S.S., dots.,  
red.; YAKOBSON, I.S., red.; ROMANOVA, Z.A., tekhn. red.

[Speech disorders in children] Rasstroistva rechi v detskom  
vozraste. Pod red. i s predisl. V.K.Tru~~n~~neva i S.S.  
Liapidevskogo. Moskva, Medgiz, 1962. 298 p. (MIRA 16:6)

Translated from the Czech.

(SPEECH, DISORDERS OF) (CHILDREN--DISEASES)

POLOVINKINA, Yu.Ir.; SOKOLOVA, Ye.P.

Corundum mica nodules in rocks of the Bug Valley. Min.sbor.  
no.12:169-182 '58. (MIRA 13:2)

1. Vsesoyuznyy geologicheskiy institut, Leningrad.  
(Bug Valley--Mica) (Bug Valley--Corundum)

SOKOLOVA, Ye. P.

New data on the study of euxenites. Zap.Vses.min.ob-va 88 no.4:  
408-418 '59. (MIRA 12:11)  
(Euxenite)

SOKOLOVA, Ye.P.

Aluminiferous analogues of glauconite. Rent. min. syr.  
no.2:52-63 '62.

Vein bowlingite from olivine diabases and gabbro diabases  
of Tyumen' Province. 64-68 (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy  
institut Ministerstva geologii i okhrany nedr SSSR.

POLOVINKINA, Yu.Ir.; SOKOLOVA, Ye.P.

Micas from some rocks of the Ukraine. Min. sbor. no.16:240-  
252 '62. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut,  
Leningrad.  
(Ukraine--Mica)

DUBININA, V.N.; KORNILOVICH, I.A.; SOKOLOVA, Ye.F.

Pyromorphite and other exogenetic minerals of the apatite  
group in the complex metal deposits of eastern Transbaikalia.  
Trudy VSEGEI 96:137-149 '63. (MIRA 17:9)

SOKOLOVA, YE, P.

Hybridization, Begetable

Effect of the Pistil's age upon the success of Hybridization, Dokl. AN SSSR, 81, No.5, 1951.  
Plcdoovoshchnoy Institut im. I. V. Michurina M, churinsk. rcd. 29 Sep. 195.

SO: Monthly List of Russian Accessions, Library of Congress, May 1952 ~~1953~~, Uncl.

SOKOLOVA, Ye.P., kandidat biologicheskikh nauk.

Flowering of the ceriman (*Monstera deliciosa*) under room conditions. Priroda  
42 no.12:113-114 D '53. (MLRA 6:11)

1. Plodovo-voshchnoy institut im. I.V.Michurina (Michurinsk).  
(Tropical plants)

USSR/Cultivated Plants. Fruits. Berries.

H

Abs Jour : Ref Zhur-Biol., No 15, 1956, 68319

Author : Sokolova, Ye. P.  
Inst : Fruit and Vegetable Institute imeni I. V. Michu-  
rin.

Title : The Influence of Pollination at Various Times  
of the Day upon the Effectiveness of Fruit  
and Berry Plant Hybridization.

Orig Pub : Tr. Plosoyushchi. in-ta im. I. V. Michurin,  
1956, 9, 81-90

Abstract : Pollen germination and the growth of pollen  
tubes on stigmas of Michurin strains and hyb-  
brids of fruit and berry plants were studied  
under a microscope with the method developed  
by A. S. Tatarintsev. Pollination was carried

Card : 1/3

20-2-55/60

AUTHORS: Sokolova, Ye. P., Zhalnin, V. S.

TITLE: **The Influence of the Age of the Flower Upon the Hybrid Progeny of An Apple Tree (K voprosu o vliyanii vozrasta tsvetka na gibridnoye potomstvo yabloni)**

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.429-430  
(USSR)

ABSTRACT: In order to clarify the question of the influence of the age of the flower upon the progeny of the apple tree, the authors of the paper under review cross-pollinated the Michurin species "Safran Pepin" (female) and Pyrus niedzwiedziana (male). All parts of the latter have a red color. The pollination was conducted in three different ways: I. - the young flowers, II. - the normally mature flowers, and III. - the almost dead old flowers. Under the assumption that the apple tree is autosterile the flowers were not castrated. In the fall, about 500 seeds were obtained from these cross-pollination experiments. They were sown in the spring of the next year, and about ten days later the first seedlings appeared. The red

Card 1/3

20-2-55/60

The Influence of the Age of the Flower Upon the Hybrid Progeny  
of an Apple Tree

color of the father plant was inherited, to a certain degree, by the entire progeny. After the young trees had been planted, a triple control with respect to their inclination to the father or mother side was conducted during the summer and the fall. Table Nr 1 of the paper under review contains the results of these experiments. It can be seen that in variations II and III there are more plants that show an inclination towards the father side. This confirms the theorem that pollination of young or old flowers tends to weaken the traits inherited from the mother plant. These preliminary results demonstrate the possibility to obtain more plants with a tendency to inherit from the father plant, if young and old flowers are pollinated, than if the pollination is conducted with mature flowers of normal age. There are 1 table, and 5 Soviet references.

ASSOCIATION: Institute for Vegetable and Fruit Culture imeni  
I. V. Michurin, Michurinsk (PlodovoshchnOy institut im.  
I. V. Michurina, g. Michurinsk)

Card 2/3

20-2-55/60

The Influence of the Age of the Flower Upon the Hybrid Progeny of an Apple Tree

PRESENTED: September 14, 1956, by A. L. Kursanov, Member of the Academy

SUBMITTED: September 14, 1956

AVAILABLE: Library of Congress

Card 3/3

SOV-26-58-9-26/42

AUTHOR: Sokolova, Ye. P., Candidate of Biological Sciences

TITLE: The Haemanthus (Gemantus)

PERIODICAL: Priroda, 1958, Nr 9, p 110 (USSR)

ABSTRACT: Research was made by the chair of botanics of the Fruit and Vegetable Institute imeni I.V. Michurin on a plant belonging to the Haemanthus tigrinus or Haemanthus of Professor V.F. Razdorskij species. The author gives information on the growth and development of this plant. There are 2 photos.

ASSOCIATION: Plodoovoshchnoy institut /Michurinsk (The Fruit and Vegetable Institute /Michurinsk)

1. Botany 2. Plants--Growth

Card 1/1

LEVIN, A.M., kand.sel'skokhozyaystvennykh nauk; SOKOLOVA, Ye.P., kand.  
biologicheskikh nauk

Effect of fertilizer application during planting on corn development.  
Agrobiologija no.2:290-292 Mr-Ap '62. (MIRA 15:4)

1. Plodovo-voshchnoy institut imeni I.V.Michurina, Michurinsk.  
(Corn (Maize)—Fertilizers and manures)

SOKOLOVA, Ye.P.

X-ray analysis of the micas of the muscovite group. Trudy  
VSEGEI 96:227-258 '63. (MIRA 17:9)

SOKOLOVA, Ye.B.; SHEBANOVA, M.P.; CHZHOU KHEN-TSZIN' [Chou Heng-chin];  
PISAROVA, S.A.

Use of fulvenes for the synthesis of homologs and analogs of  
ferrocene. Zhur. ob. khim. 34 no.8:2693-2696 Ag '64.  
(MIRA 17:9)

FRANK-KAMENETSKIY, V.A.; SAL'DAU, E.P.; SOKOLOVA, Ye.P.

Second All-Union Conference on the X-Ray Diffraction of Minerals.  
Zap. Vses. min. ob-va 93 no.1:118-120 '64 (MIRA 18:2)

RIMSKAYA-KORSAKOVA, O.M.; SOKOLOVA, Ye.P.

Iron-containing magnesia micas with reverse absorption diagrams.  
Zap. Vses. min. ob-va 93 no.4:411-423 '64 (MIRA 18:2)

YEFREMOVA, G.D.; MAKAREVICH, L.A.; SOKOLOVA, Ye.S.

Phase equilibria in the acetic acid - nitrogen system. Khim.prom.  
no.8:563-564 Ag '61. (MIRA 14:8)  
(Nitrogen) (Phase rule and equilibrium)

YEFREMOVA, G.D.; SOKOLOVA, Ye.S.

Method for determining the solubility of liquid in gases at  
high pressures and temperatures. Zhur. fiz. khim. 37 no.11;  
2612-2614 N°63. (MIRA 17:2)

1. Gosudarstvennyy institut azotnoy promyshlennosti.

Sokolova, E. S.

800 fmf

✓ 16594\* (Russian.) Investigating Non-Metallic Inclusions in  
castings With Radioactive Isotopes. Исследование засоров в  
отливках при помощи радиоактивных изотопов. B. B.  
Guliaev, Yu. F. Borovskii, Z. V. Sigalova and E. S. Sokolova.  
*Litmash Prozvodstvo*, 1956, no. 8, Aug. 1956, p. 22.

Studied primarily the inclusions carried into the casting from  
the walls of the mold. The  $W^{188}$  isotope was mixed into the  
molding sand and the amount of inclusions in the casting was  
determined by autoradiography.

4

MERAULOV, L. G. and SOKOLOVA, Ye. S.

"Absorption of Sound in Single Crystals of Quartz,"

report presented at the 6th Sci. Conference on the Application of Ultrasound in the investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR and Moscow Oblast Pedagogic Inst. im N. K. Krupskaya.

SOV/120-58-4-8/30

AUTHORS: Medvedev, M. N., Sokolova, Ye. S., Filippov, P. I. and Tsislyak, O. N.

TITLE: Time Characteristics of Photo-Multipliers (Vremennyye kharakteristiki fotoumnoshiteley)

PERIODICAL: Pribory i tekhnika eksperimenta, 1953, Nr 4, pp 37-39  
(USSR)

ABSTRACT: An investigation was made of the rise times of the leading edges of pulses from the following photomultipliers developed by N. S. Khlebnikov: FEU-1V, FEU-2V, FEU-1B2V. Photomultipliers FEU-1V and FEU-2V have semitransparent photocathodes 40 mm in diameter, and differ from each other only in the number of dynodes. The photocathode is made of SbCs and its maximum spectral sensitivity is at 4000 Å. The amplification coefficient for the FEU-1V is about  $5 \times 10^5$  and for the FEU-2V about  $2-3 \times 10^6$ . The FEU-1B2V has a larger cathode, namely, 80 mm diameter and an amplification coefficient of about  $10^6$ . The photomultipliers are so constructed that the electron collection from the photocathode is 100%. Experiments have shown that the rise time (0.1-0.9)

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30V/120-58-4-8/30

Time Characteristics of Photomultipliers

of the leading edges of pulses from the 3 photomultipliers are  $3.5 \times 10^{-9}$  for the first two and  $4.5 \times 10^{-9}$  for the third one. The photomultipliers may be used in scintillation counters and Cerenkov counters in fast coincidence circuits. It is necessary to screen the counters from external electromagnetic fields by means of appropriate electromagnetic screens. N. S. Khlebnikov, A. Ye. Melamid and A. M. Potapov are thanked for supplying the photomultipliers and taking part in discussions. There are 7 figures, 4 tables and no references.

ASSOCIATION: Ob'yedinenyyi institut yadernykh issledovaniy (United Institute for Nuclear Studies)

SUBMITTED: October 30, 1957.

Card 2/2

05218  
SOV/142-2-3-26/27

9(3,9), 24(1)

AUTHOR: Sokolova, Ye.S., Candidate of Technical Sciences

TITLE: A Scientific Conference on the Application of Ultrasound in the Investigation of Matter

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, p 386 (USSR)

ABSTRACT: From February 10-14, 1959, the Seventh Scientific Conference on the Application of Ultrasound for the Investigation of Matter was convened in Moscow at the Moskovskiy Oblast'noy pedagogicheskiy institut, imeni N.K. Krupskoy (Moscow Oblast Pedagogical Institute, imeni N.K. Krupskaya). About 500 vuz instructors from Moscow, Leningrad, Krasnoyarsk, Kaunas, Stalingrad and scientists from the German Democratic Republic and Poland participated in the conference work. More than 80 papers were read at the conference. The following sections were organized at this conference: molecular acoustics, industrial application of ultrasound research methods, propagation of ultrasound in solid bodies, demonstration of acoustical phenomena in schools and vuzes. At the first plenary session, the paper of V.F. Nozdrev was read "Physical Principles of Tech-

Card 1/3

05218  
S0V/142-2-3-26/27

A Scientific Conference on the Application of Ultrasound in the Investigation of Matter

nological Application of Low-Amplitude Molecular Acoustics". B.B. Kudryavtsev read his paper "The Application of Ultrasound in Industry". The following papers were read at the plenary session: A.S. Predvoditelev "The Sound Wave Dispersion in Rarefied Gases"; Dr. Rothard, German Democratic Republic, "Ultrasonic Investigation of Silica Gel and Its Derivatives"; M. Kvet, Poland, "The Application of the Molecular Kinematic Theory of Gases to the Problem of Waves with a Limited Amplitude"; N.S. Akulov, "The Theory of Roschell-type Salts", and a paper of Professor F. Kucher, Poland. Research in the field of ultrasound wave propagation in liquids was the subject of the papers of B.B. Kudryavtsev, S.A. Balyan, L.G. Belinskaya, O.A. Starostina, V.M. Zafurenova, V.D. Kaspar'yants, M.G. Shirkevich, L.F. Vereshchagina, N.L. Bryukhatova, and N.A. Golosowa. The paper jointly produced by B.B. Kudryavtsev, V.F. Nondrev, N.I. Koshevkin and V.F. Yakovlev was devoted to the consideration of problems in the development of molecular acoustics. Dr. Rothard delivered a report on the dynamic equation of the state of strongly viscous liquids. The ultrasonic oscillations were subject of the reports of Yu.M. Dystrov, A.N. Trofimov, A.I.

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05218  
SOV/142-2-3-26/27

A Scientific Conference on the Application of Ultrasound in the Investigation of Matter

Ryazanov, L.B. Pirozhnikov, L.F. Lependin, F.L. Lokshin, I.L. Cherenko and others. The report of L.A. Ol'shanskiy, A.V. Mordvintseva and others dealt with the application of ultrasound in welding. In the sections of acoustic research methods, the papers of the following authors were read: B.I. Kal'yanov, V.F. Yakovlev, A.D. Zibir and V. Kovaleva. These reports dealt with pulse measuring methods of velocity and absorption of ultrasound. The propagation of ultrasound in solid bodies was the subject of the reports of L.G. Merkulov, V.S. Cherkashin, L.A. Yakovlev, A.I. Drokin, A.K. Matveyev and others. In the section dealing with acoustical demonstration at schools and vuzes, the following reports were delivered: M.A. Grabovskiy and V.P. Topolev, "Experimental Demonstration of Ultrasound"; S.I. Mel'nikov, "The Experimental Demonstration of Sound"; S.N. Prokof'yev, "An Acoustic Radiometer for Demonstration Purposes". The annual conference convened at MOPI showed the rising interest in problems of applying ultrasound to the investigation of matter. The number of participants and the number of subjects is rising steadily.

Card 3/3

SUBMITTED:

April 13, 1959

6.8000 (also 1063,1159)

30054  
S/046/61/007/004/012/014  
B104/B102

AUTHORS: Merkulov, L. G., Sokolova, Ye. S.

TITLE: Ultrasonic absorption in Rochelle salt near the Curie point

PERIODICAL: Akusticheskiy zhurnal, v. 7, no. 4, 1961, 495-496

TEXT: I. A. Yakovlev and T. S. Velichkina (Dva novykh yavleniya pri fazovykh prevrashcheniyakh vtorogo roda (Two new effects in second-order phase conversions). Usp. fiz. nauk, 1957, 13, 411-433) observed a very distinct absorption coefficient maximum in Rochelle salt above the Curie point. This effect was only found for transverse waves with  $u_{yz}$  deformations and is explained by losses due to relaxation polarization. The authors showed that there was also a noticeable increase of absorption near the Curie point for longitudinal waves. Samples obtained from chemically pure materials measured 50·50·50 mm. The faces of the samples were perpendicular to the crystallographic axes which made it possible to measure with purely longitudinal waves. Keeping the temperature very constant assured that a possible temperature gradient could not exceed Card 1/β.2

X

30054  
S/046/61/007/004/012/014  
B104/B102

Ultrasonic absorption in Rochelle salt ...

0.05°C/cm. The temperature increase was 0.3 - 0.4°C per hour when passing through the Curie point. The absorption coefficient was measured with 6 Mc/sec. Results are shown in a figure. It has been established that increased absorption exists in the ferroelectric range only. If a sufficiently strong and constant electric field is applied along the x-axis, an increase in ultrasonic absorption is not observed when passing through the Curie point. This effect is explained by general considerations. It is shown that the absorption coefficient may be calculated in a similar way as that when calculating the linear piezoelectric effect. There are 1 figure and 3 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni V. I. Ul'yanov (Lenin))

SUBMITTED: April 12, 1960

Card 2/2

BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung-chang]; VIRYASOV, N.N.;  
DU YUAN'-TSAY [Du Yuan-cai]; KIM KHI IN; KLADNITSKAYA,  
Ye.N.; KUZNETSOV, A.A.; NGUYEN, DIN TY [Nguyen Dinh Tu];  
PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.

[Properties of  $\pi^0$ -mesons produced together with strange  
particles in  $\pi^-$ -p and  $\pi^-$ -c-interactions] Izuchenie  
svoistv  $\pi^0$ -mezonom, rozhdaiushchikhsia so strannymi cha-  
stitsami v  $\pi^-$ -p i  $\pi^-$ -c vzaimodeistviakh. Dubna, Ob"-  
edenennyi in-t iadernykh issledovanii, 1962. 10 p.  
(MIRA 16:10)

(Mesons)

SOKOLOVA, YE.S.

BELYAKOV, V.A., WANG YUNG-CHANG, VENKIER, V.I., VIRYACOV, N.M., LU HUAN-TSAI,  
KIM HI IN, KLANDNITSKAYA, Ye. N., KUZNETSOV, A.A., MIHUL, A., NGUEN, DIN TI, PENEV, V.N.,  
SOKOLOVA, Ye. S., SOLOVIEV, M. I.

"Study of  $\Lambda K$  and  $K^0 \bar{K}^0$  Pair Production in  $\pi^- p$  and  $\pi^- \bar{C}$  Interactions at the  
7-8 Gev/C Momentum of  $\pi^-$ -Mesons"

report presented at the Int'l. Conference on High Energy Physics, Geneva,  
4-11 July 1962

Joint Institute for Nuclear Research  
Laboratory of High Energy Physics

VAN YU-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; DU YUAN'-TSAY  
[Tu Yuan-ts'ai]; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.;  
MIKHUL, A.; NGUYEN DIN TY; PENEV, V.N.; SOKOLOVA, Ye.S.;  
SOLOV'YEV, M.I.; SARANTSEVA, V.R., tekhn. red.

[Generation of  $\Lambda$   $K^0$  and  $K^0\bar{K}^0$  pairs in  $\pi^-p$  interactions at  $\pi^-$ -meson energies of 7-8 Bev/c.] Izuchenie rozhdeniya  $\Lambda$   $K^0$  i  $K^0\bar{K}^0$ -par v  $\pi^-p$  - vzaimodeistviakh pri impul'se  $\pi^-$ -mezona 7-8 Bev/s. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 15 p.  
(MIRA 15:6)

1. Institut Atomnoy fiziki, Bukharest. (for Mikhul).  
(Mesons) (Nuclear reactions)

SOKOLOVA, Ye. S.

3/05/62/043/003/013/063  
3102/3104

AUTHORS: Wan, Yung-chang, Vaksler, V. I., Tu Yuan-ts'ai,  
Kladnitskaya, Ye. N., Kuznetsov, A. A., Mikhul, A.,  
Nguyen Din Ty, Penav, V. N., Sokolova, Ye. S. Solov'yev, M. I.

TITLE: Investigation of  $\Lambda K^0$  and  $K^0 \bar{K}^0$ -pair production in  $\pi^- p$  interactions with  $\pi^-$  meson momentum of 7-8 Bev/c

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 5(9), 1962, 815-822

TEXT: Pair production events, including 52 ( $\Lambda + K^0$ ), 37 ( $K^0 + \bar{K}^0$ ), 16 either ( $\Lambda + \bar{K}^0$ ) or ( $\bar{\Lambda}^0 + K^0$ ) and two ( $\Lambda + K^0 + \bar{K}^0$ ) were observed among 60,000 photographs made with a 2-l liter propane bubble chamber. The momentum and angular distributions of the  $\pi^+$ ,  $\Lambda$  and  $K^0$  particles were determined. Also the distribution of

$$Q = [2(E_{\Lambda(K)}E_K - P_{\Lambda(K)}P_K \cos \theta_{\Lambda(K), K}) + m_{\Lambda(K)}^2]^{1/2} - m_{\Lambda(K)} - m_K (l)$$

Card 1/3

(P = momenta)

Investigation of  $\Lambda K^0$  and...

3/056/62/043/003/013/063  
B102/5104

was studied and the results obtained were confronted with the theoretical curves (Monte Carlo method). Results: The mean  $K^0$  momentum from  $\Lambda K^0$  pairs was  $702 \pm 54$  Mev/c, from  $K^0 \bar{K}^0$  pairs  $604 \pm 55$  Mev/c. In the  $\Lambda K^0$  c.p., in  $(55 \pm 9)\%$  of the events the  $\Lambda$  particles from  $\Lambda K^0$  pairs flew backward and those from the  $K^0$  forward. In  $(33 \pm 7)\%$  they both flew backward. In  $(12 \pm 4)\%$  they both flew forward or the  $\Lambda$  forward and the  $K^0$  backward (this distribution indicates a contribution of peripheral interaction). The  $\Lambda$ -hyperon distribution has a peak at  $-1 < \cos\theta_\Lambda \leq -0.8$ . For the  $K^0 \bar{K}^0$  pairs a maximum in the  $K^0$  distribution was observed at  $-0.6 < \cos\theta_K \leq +1$ . In  $(47 \pm 12)\%$  of the cases the both  $K^0$  mesons flew in opposite directions, in  $(25 \pm 7)\%$  both flew backward and in  $(26 \pm 8)\%$  both forward. From the angular distribution it can be concluded that in  $\Lambda K^0$  pair production besides the S-wave states with higher l will exist. The  $\zeta$ -distribution for these pairs has a maximum in the range 50-150 Mev/c. There are 14 figures.

Card 2/3

Investigation of  $\Lambda K^0$  and...

S/056/62/043/003/013/063  
B102/B104

ASSOCIATION: Ob"yedinennyj institut yadernykh issledovanij (Joint Institute of Nuclear Research). Institute of Atomic Physics, Bucharest (A. Mikhul)

SUBMITTED: April 11, 1962

Card 3/3

VAN YUN-CHAN; VEKSLER, V.I.; DU YUAN'-TSAY; Kladnitskaya, Ye.N.; Kuznetsov, A.A.; Mikhul, A.; Nguyen Din Ty; Penev, V.N.; Sokolova, Ye.S.; Solov'yev, M.I.

Production of  $\Lambda K^0$  and  $K^0 \bar{K}^0$  pairs in interactions between protons and 7-8 Bev./c  $\pi^-$ -mesons. Zhur. eksp. i teor. fiz. 43 no.3:815-822 '62. (MIRA 15:10)

1. Ob'yedinennyj institut yadernykh issledovaniy. 2. Sotrudnik Instituta atomnoj fiziki v Bukhareste (for Mikhul).  
(Mesons) (Protons) (Angular momentum (Nuclear physics))

BELYAKOV, V.A.; YAN YUN-CHAN [Wang Yung ch'ang]; VEKSLER, V.I.;  
VIRYASOV, N.I.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan ts'ai];  
KIM KHI IM; KLAUDITSKAYA, Ye.N.; KUZNETSOV, A.A.;  
MIKHUL, E.; NGUYEN, DIN TY; PATEKA, I.; PENEV, V.N.;  
SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOFMOKL', T.;  
VIKHUL, A.

[Production of  $\Lambda$ -hyperons and  $K^0$ -mesons in  $\pi^- p$ -  
interactions at an energy of 7-8 Bev] Issledovanie protsen-  
sov rozhdeniya  $\Lambda$ -giperonov i  $K^0$ -mezono $v \pi^- p$  vzaimo-  
deistviakh pri energii 7-8 Bev. [n.p. n.d.] 26 p.  
(MIRA 16:10)

(Mesons) (Hyperons)

SOKOLOVA Ye. S.

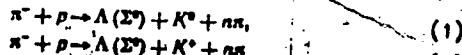
8/056/63/044/002/007/063  
B102/B186

8

AUTHORS: Belyakov, V. A., Wang Yung Ch'ong, Vekeler, V. I.,  
Viryasov, N. M., Vrana, I., Tu Yuan-ts'ai, Kim Khi Ying,  
Kladnitskaya, Ye. N., Kuznetsov, A. A., Mikhul, E. Nguyen  
Dir Ty, Patera, I., Penev, V. N., Sokolova, Ye. S.,  
Solov'yev, M. I., Khosmokl', T., Cheng Ling-yen, Mikhul, A.  
TITLE: Investigation of  $\Lambda$ -hyperon and  $K^0$ -meson production  
processes in  $\pi p$  interactions at 7-8 Bev.  
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 2, 1963, 431-443

TEXT: The c.m.s. momentum and angular distributions determined for the  
 $\Lambda$  and  $K^0$  particles produced in  $\pi p$  interactions are given and discussed.  
The measurements were made using a 24-liter propane bubble chamber in a  
field of 13,700 oe. The total momentum spectrum of the  $\Lambda$ -hyperons  
produced in the reactions

Card 1/7



Investigation of  $\Delta$ -hyperon ...

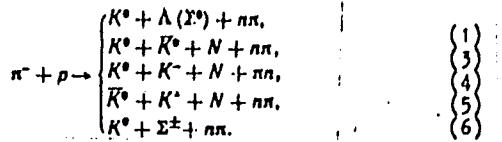
S/056/63/044/002/007/065  
B102/B106

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are shown in Fig. 1, compared with theoretical results. As it may be seen the statistical theory describes the experimental curve very well if the isobars and the cases with  $p_p - p = \Delta < 700$  Mev are neglected.

$\Delta < 700$  Mev corresponds to  $\sim 30\%$  of all  $\Delta$ , these being produced in peripheral interactions. The  $\Delta$  angular distribution has a distinct backward peak ( $\bar{n}/n_{\Delta} = 0.18 \pm 0.02$ ). With increasing multiplicity  $n$ , the agreement between experiment and statistical theory improves. The  $\Delta$  angular distribution and the distribution with respect to  $p_{\perp}$  is virtually independent of  $n$ . The overall mean of the transverse momentum is  $383 \pm 12$  Mev/c; for  $\Delta < 700$  Mev,  $\bar{p}_{\Delta_1} = 295 \pm 14$  Mev/c and for  $\Delta > 700$  Mev,  $\bar{p}_{\Delta_1} = 432 \pm 18$  Mev/c. For the  $K^0(\bar{K}^0)$  mesons produced in the reactions

Card 2/7

Investigation of  $\Lambda$ -hyperon ...8/056/63/044/002/007/065  
B102/B186

the total momentum spectrum measured (Fig. 4) is weaker than that calculated according to the statistical theory. The angular distribution (Fig. 5) has, besides the isotropic part, a forward peak ( $\frac{n_0}{K^0} / \frac{n_0}{K^-} = 1.61 \pm 0.15$ ). The forward-backward ratio decreases with increasing  $n_\pi$ . For the charged pions arising in  $\Lambda$ -production events the momentum distributions are, for  $p_x^* \geq 400$  Mev/c, well described by the statistical theory without taking the isobars into account; for  $p_x^* < 400$  Mev/c it is higher than that obtained from theory. The angular distributions for  $n_\pi = 2, 4, 6$  are characterized by

Card 3/7

Investigation of  $\Lambda$ -hyperons...S/056/63/044/002/007/065  
B102/B106

$$\bar{n}_{\pi^+}/\bar{n}_{\pi^+} = 1.10 \pm 0.12, \quad \bar{n}_{\pi^-}/\bar{n}_{\pi^-} = 1.40 \pm 0.13.$$

The mean number of  $\pi^0$  mesons produced per  $\pi^- p$  interaction with  $\Lambda$  production is  $1.23 \pm 0.14$ . The angular distribution of  $\pi^-$  arising in stars with  $K^0$  production has a flat forward maximum ( $\bar{n}_{\pi^-}/\bar{n}_{\pi^-} = 1.10 \pm 0.10$ ). The mean number of charged particles produced together with  $\Lambda$  is  $n_s = 2.22 \pm 0.13$  which agrees closely with the statistical theory without the isobars. The main part of  $\Lambda$  and  $K^0$  is produced in two-pronged stars. The admixture of  $K^0 \Sigma^\pm$  pairs amounts to less than 20% of the number of  $K^0 K^- + K^0 K^+$  pairs. The momentum distribution of charged pions from  $\pi^- p$  interactions with  $\Lambda$ -hyperon production are characterized by  $p_{\pi^+}^* = 425 \pm 16$  Mev/c and  $p_{\pi^-}^* = 444 \pm 15$  Mev/c. From a comparison of these angular distributions it is concluded that processes involving  $\Lambda K$  or  $K \bar{K}$  pair production are more central than the usual processes of multiple pion production. If one divides the  $\pi^- p$  interactions with strange particle production into head-on

Card 4/7

Investigation of  $\Lambda$ -hyperon ...

8/056/63/044/002/007/065  
B102/B106

and peripheral collisions one can say that those involving  $K\bar{K}$  pair production are rather of the head-on type than those with  $\Lambda K$  pair production. There are 15 figures and 2 tables.

ASSOCIATION: Ob'yedinennyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: July 31, 1962

Fig. 1. Total momentum spectrum of hyperone; dashed line: without correction for recording probability; shaded area: events with  $\Delta < 700$  Mev curves obtained from statistical theory with (I) and without (II) isobars, and without the events with  $\Delta < 700$  Mev (II').

Fig. 4.  $K^0$  total momentum spectrum.

Fig. 5.  $K^0$  total angular distribution.

Card 5/7

L 10238-63

FCS(f)/EWT(m)/EDS-AFFTC/ASD

ACCESSION NR: AP3000037

S/0056/63/044/005/1474/1480

69

AUTHOR: Belyakov, V. A.; Wang Yung-ch'ang; Viryasov, N. M.; Tu Yuan-ts'ai,  
Kim Khi In; Kladnitskaya, Ye. N.; Kuznetsov, A. A.; Nguyen Din Ty; Penev, V. N.;  
Sokolova, Ye. S.; Solov'yev, M. I.

61

TITLE: A study of the properties of neutral pions produced with strange  
particles in negative pion proton and negative pion carbon interactions.

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1474-1480

TOPIC TAGS: Neutral pions, strange particle interactions

ABSTRACT: An earlier investigation on the production of strange particles by  
7-8 Bev negative pions on hydrogen and carbon was continued with a 24 - liter  
propane bubble chamber. The properties of the neutral pions inferred from the  
photons accompanying the LAMBDA hyperon and neutral kaon production are given  
and are compared with the properties of the pions (positive and negative)  
emitted in LAMBDA and neutral-kaon production processes. In calculating the  
total number of photons, corrections were introduced for the loss of photons

Card 1/2

L 10238-63

ACCESSION NR: AP3000037

8

emitted at large azimuthal angles and for the asymmetry of the incident beam relative to the longitudinal axis of the chamber. The possibility of a resonance with radiative decay is noted. "In conclusion, the authors wish to thank Academician V. I. Veksler, Professor Chang Weng-yu, M. I. Podgoretskiy, A. M. Baldin, A. V. Nikitin, V. B. Lyubimov and Yen Wu-kuang for useful discussions and many valuable remarks, the staff of the computation center for the calculations, and the laboratory assistants for the measurements. Orig. art. has: 4 figures, 9 formulas, and 4 tables.

ASSOCIATION: Ob'yedinenyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 07Dec62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: PH NR REF SOV: 008 OTHER: 004

*clm/af*  
Card 2/2

BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; VIRYASOV,  
N.M.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan-ts'ai]; KIM KHI IN;  
KLODNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MIKHUL, E.; NGUYEN DIN TY;  
PATERA, I.; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.;  
KHOFMOKL', T.; CHEN LIN-YAN'; MIKHUL, A. [Mihul, A.]

Study of  $\Lambda$ -hyperon and  $K^0$ -meson production in  $\pi\pi$ -p-interactions  
at an energy of 7 - 8 Billion Electron Volts. Zhur.eksp. i teor.  
(MIRA 16:7)  
fiz. 44 no.2:431-443 F '63.

1. Ob'yedinenyyi institut yadernykh issledovaniy. 2. Sotrudnik  
Instituta atomnoy fiziki v Bukhareste (for Mikhul).

VAN YU-CHAN [Wang Yung-ch'ang]; KIM KHI IN; KLADNITSKAYA, Ye.N.;  
KOPYLOV, G.I.; KUZNETSOV, A.A.; MEL'NIKOVA, N.N.; NGUYEN  
DIN TY; SOKOLOVA, Ye.S.

[Search of radiative decays of resonances involving  $\Lambda^-$   
hyperons] Poiski radiatsionnykh raspadov rezonansov s  
uchastiem  $\Lambda^-$ -giperonov. Dubna, Ob"edinennyi in-t iader-  
nykh issledovanii, 1964. 7 p. (MIRA 17:4)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652120007-7

LENCHIK, A.S.; SHAPOSHNIKOVA, A.P.; DOKUL'VA, Ye. I.

System fluore-sulfonic acid - sulfuric anhydride. Zhur. neorg.  
Khim. 3 no.12;2716-2726 L '63. (ZINR 17,9)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652120007-7"

LENSKIY, A.S.; SHAPOSHNIKOVA, A.D.; SOKOLOVA, Ye.S.

Thermal constants of chlorosulfonic acid and of mixtures  
of fluosulfonic acid with sulfuric anhydride. Zhur. neorg.  
khim. 9 no. 5:1147-1154 My '64. (MIRA 17:9)

BELYAKOV, V.A.; VEKSLER, V.I.; VIRYASOV, N.M.; KIADNITSKAYA, Ye.N.;  
KOPYLOV, G.I.; MIKHUL, A. [Michul, A.]; PENEV, V.N.; SOKOLOVA,  
Ye.S.; SOLOV'YEV, M.I.

$\psi$ -Meson resonances generated simultaneously with strange  
particles in  $\pi$ -p-interactions at 7.5 Gev./c. Zhur.eksp.i teor.  
fiz. 46 no.6:1967-1978 Je '64.

1. Ob'yedinennyi yadernykh issledovaniy. 2. Sc-  
trudnik Instituta atomnoy fiziki Rumynskoy Akademii nauk,  
Bukharest (for Mikhul). (MIRA 17:10)

SOKOLOVA Ye.V.

The TSKBMM-71 automatic line for rolling hollow billets  
for bicycle hub bodies. Biul.tekh.-ekon.inform. no.7:  
8-10 '60. (MIRA 13:7)  
(Rolling mills)

112-57-8-18148

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8, p 335 (USSR)

AUTHOR: Pigarev, N. B., Nikulitskiy, I. V., Artimichev, M. A., Kiskachi, A. B.,  
Kuz'minykh, L. M., Sokolova, Ye. V., and Shafrov, V. A.

TITLE: Ultraviolet Illumination of Fowl Kept in a Cage (Ul'trafioletovoye oblucheniye  
ptitsy pri kletochnom soderzhanii)

PERIODICAL: Veterinariya (Veterinary Medicine), 1956, Nr 11, pp 70-73

ABSTRACT: A report is offered on the results of illuminating caged chickens by mercury-quartz PRK-2 lamps. The experiments confirmed that ultraviolet illumination protects fowl against mineral-metabolism disturbances, makes it unnecessary to include cod-liver oil and vitamin D in the fowl's ration, increases egg-laying ability (by 20%), and increases live weight (by 10%). Experiments have shown the expediency of this periodic illumination: 4 minutes a day for 10 days, followed by 10 days without illumination. A mobile outfit designed by engineer Osetrov and traveling at

Card 1/2

*Sokolova, Ye. V.*  
DAV'DOVA, Z.M.; SOKOLOVA, Ye.V., kand. nauk.

Effect of mineral feeding and the stage of oviposition on the mineralization of tibia in caged layers. Dokl. TSKhA no.27:335-339 '57.  
(MIRA 11:4)

1. Zootekhnicheskaya opytnaya stantsiya Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii im. K.A. Timiryazeva i Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepromyshlennosti.  
(Poultry) (Tibia)

SOKOLOVA, Ye.V., kand. biologicheskikh nauk

Mineral nutrition of laying hens. Ptitsvodstvo 8 no.10:9-12  
O '58. (MIRA 11:10)  
(Poultry--Feeding and feeding stuffs)  
(Minerals in feed)

SOKOLOVA, Ye.V.

Some characteristics of the metabolism of food calcium in poultry  
in connection with the formation of the eggshell. Biul. MOIP.  
Otd. biol. 66 no.4:149 J1-Ag '61. (MIRA 14:7)  
(CALCIUM METABOLISM) (POULTRY--PHYSIOLOGY)  
(EGGS--PRODUCTION)

KABAK, Ya.M.; SOKOLOVA, Ye.V. & IVANOVA, Ye.A.

Hypothalamic factor influencing secretion of luteinizing hormone from the anterior lobe of the pituitary body. Bul. eksp. biol. i med. 56 no.7:104-107 Jl'63 (MIRA 17:3)

1. Iz laboratorii endokrinologii ( zav. - prof. Ya.M. Kabak) biologo-pochvennogo fakulteta Moskovskogo gosudarstvennogo universiteta imeni Lomonosova. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

KABAK, Ya.M.; SOKOLOVA, Ye.V.

Content of luteinizing hormone in the hypophysis of rats with  
prolonged estrus. Biul.eksp.biol.i med. 54 no.7:90-93 J1 '62.  
(MIRA 15:11)

1. Iz laboratorii endokrinologii (zav. - prof. Ya.M.Kabak)  
biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo  
universiteta. Predstavlena deystvitel'nym chelnom AMN SSSR V.G.  
Baranovym.

(ESTRUS)

(PITUITARY HORMONE)

KABAK, Ya. M.; SOKOLOVA, Ye. V.

Effect of extracts of the hypothalamus and the posterior lobe  
of the pituitary body on the secretion of the luteinizing hor-  
mone. Dokl. AN SSSR 147 no.6:1516-1519 D '62.  
(MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova.  
Predstavлено академиком V. N. Chernigovskim.

(HYPOTHALAMUS) (PITUITARY BODY) (HORMONES)

MAKASHEV, A.P., kand. tekhn. nauk; MINKINA, A.I., kand. biol. nauk;  
ALDAKIMOVA, A.Ya.; SOKOLOVA, Ye.V.

Effect of the intensity of proteolysis and the presence of microbes  
on the occurrence of "split bellies" in some fish species. Trudy VNIRO  
35:145-151 '58.  
(MIRA 11:11)

1. Azovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo  
instituta morskogo rybnogo khozyaystva i okeanografii.  
(Fishery products--Preservation) (Food spoilage)

SHEVOMOV, I.K.; SOKOLOVA, Ye.V.; VORONENKO, S.I.

Flow of biogenic elements in the Don River. Trudy AZNITREH  
no.5:7-16 '63. (MIRA 17:8)

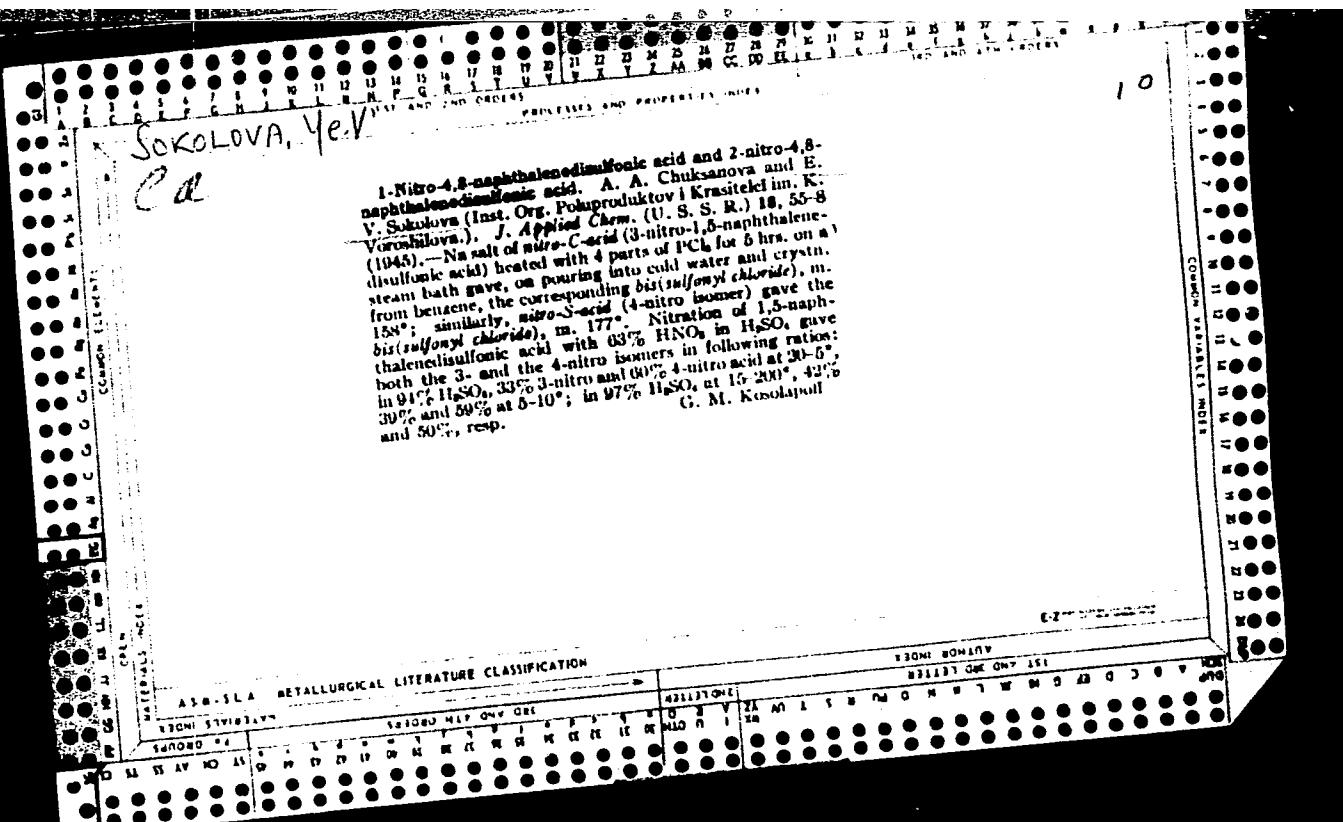
MAKASHEV, A.P.; Prinimili uchastiye: ALDAKIMOVA, A.Ya.; MINKINA, A.I.,  
mladshiy nauchnyy sotrudnik; SOKOLOVA, Ye.V.

[Use of carbon dioxide in fish preservation]. Primenenie ugle-kislotoy pri khranenii ryby. Moskva, Pishchepromizdat, 1959. 136 p.  
(Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut morskogo  
rybnovo khozaiystva i okeanografii. Trudy, vol. 37). Trudy VMIRO  
37 '59. (MIRA 17:4)

1. Starshiye laboranty tekhnologicheskoy laboratorii Dono-Kubanskogo  
otdeleniya Azovsko-Chernomorskogo nauchno-issledovatel'skogo  
instituta morskogo rybnogo khozyaystva i okeanografii (for Aldakimova,  
Sokolova). 2. Tekhnologicheskaya laboratoriya Dono-Kubanskogo  
otdeleniya Azovsko-Chernomorskogo nauchno-issledovatel'skogo  
instituta morskogo rybnogo khozyaystva i okeanografii (for Min-  
kina).

AKSENOVA, Ye. I., SOKOLOVA, Ye. V.

Determination of primary production in Tsimlyansk and Vesslyy  
Reservoirs. Trudy zNILRKH no. 6363-69 (1). (MIRA 17t8)



SOKOLOV A. Ye.

2ND ORDER PROCESSES AND PROPERTIES INDEX

Determination of small quantities of monophenols in the presence of polyphenols and quinones. I. I. Ioffe and E. V. Sokolova (Inst. of Org. Intermed. and Dyesulfurs, Voronezh). *J. Applied Chem. (U.S.S.R.)* 18, 273-7 (1945) (Engl. translation). Small quantities of monophenols can be determined in the presence of polyphenols and quinones by oxidation of the latter with  $H_2O_2$ . Treat 10 ml. of the test soln., consty: about 0.0102 mol./l., with 1 ml. of 20-30%  $H_2O_2$  and 8 ml. 20%  $NH_4OH$ ; after 2-3 hrs. remove excess  $H_2O_2$  by adding  $MgCl_2$ , neutralize the filtrate with  $HCl$ , and treat with diazonium-sulfanilic acid soln. in the presence of  $Na_2CO_3$  and  $NH_4OH$  at 0-5°, and measure the color in a photometer. G. M. Kosalapoff

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**1.0.1.4 METALLURGICAL LITERATURE CLASSIFICATION**

110W 100-1.8V

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652120007-7"

SOKOLOVA, Ye. V.

USSR/Chemistry - Vanadium Compounds

Jan/Feb 51

"Quantitative Determination of Vanadium With Diantipyrylphenylmethane," S. I. Gusev,  
R. G. Beyles, Ye. V. Sokolova, Chair Gen Chem and Biochem, Molotov State Med Inst

"Zhur Analit Khim" Vol VI, No 1, pp 43-48

Diantipyrylphenylmethane (I) in acid will ppt  $V_5^+$  as difficultly sol compd  
 $((C_{11}H_{11}ON_2)_2CHC_6H_5)_2H_4V_6O_{17}$  (II). Developed new method for gravimetric detn of V  
(as  $V_2O$  or II) in presence of NaCl,  $Mn_2SO_4$ ,  $MnNO_3$ . Showed possibility of volu-  
metric detn of V by dissolving II in alkali and titrating excess of alkali. Showed  
possibility of volu- and gravimetric detn of V in ferrovanadium with I.

177T10

SOKOLOVA, E. V.

USSR/Chemistry - Hydrocarbon oxidation

Card 1/1 : Pub. 147 - 4/21

Authors : Ioffe, I. I.; Levin, Ya. S.; Sokolova, E. V.; Kronich, I. G.; and Shirokova, N. I.

Title : Study of the kinetics and mechanism of vapor-phase incompletely oxidation of benzene with molecular oxygen

Periodical : Zhur. fiz. khim. 8, 1386-1394, Aug 1954

Abstract : The kinetics of benzene oxidation with molecular O<sub>2</sub> was investigated at high hydrocarbon concentrations and relatively low temperatures and pressures. It was found that the kinetics of oxidation reaction corresponds to the kinetics of a degenerated explosion. The relation between the rate of reaction, benzene:oxygen ratio and partial O<sub>2</sub> pressure, was established. The inhibiting effect of the quartz surface on the volumetric reaction of benzene oxidation, is discussed. Six references: 2-USSR and 4-English (1929-1950). Tables; graphs; drawings.

Institution : The K. E. Voroshilov Scientific Research Institute of Organ. Semi-Products and Dyes

Submitted : July 3, 1953

SOKOLOVA, Ye., PETROV, A., and GAO-CHIN-LUN

AS USSR

"L'action du tert-butyllithium sur les esters," paper submitted  
at 16th International Congress of Pure and Applied Chemistry, Paris,  
18-24 July 1957

SOKOLOVA, Ye V.

Use of 2-hydroxy-1-naphthaldehyde in analytical chemistry. III. Gravimetric semimicrodetermination of beryllium. S. I. Gusev, V. I. Kumov and E. V. Sokolova. (Med. Inst. Molotov). Zhur. Anal. Khim. 12, 55-8 (1957); cf. C.A. 51, 2463. — To det. Be add a 5-fold excess of 2% alc. soln. of 2-hydroxy-1-naphthaldehyde to a soln. contg. 1 mg Be/ml. The combined soln. should contain 50% alc. Heat the combined soln. to boiling and add gradually with const. stirring  $N$  NH<sub>4</sub>OH to distinct odor. Filter, wash with 50% alc., dry at 110°, and weigh. Gravimetric factor is 0.02565. Cu, Fe, and Al when present are neutralized by addn. of Complexon III. The Be salt is yellow-green cryst., solv. in H<sub>2</sub>O 0.008%, in alc. 0.038%, in 50% alc. 0.05%, in ether 0.05%. Heating in 2N H<sub>2</sub>SO<sub>4</sub> destroys the salt. It is sol. in concd. HCl and in boiling 2N NaOH. At 253° it chars without melting. M. Hoseh

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30 Koltov A. V.

JOURNAL OF ANALYTICAL CHEMISTRY  
Vol XIII, Nr 4, 1957

PHOTOMETRIC DETERMINATION OF COBALT WITH PYRAZOLONE DERIVATIVES

E. V. Sankar, A. S. Patel and N. J. Pandya  
Molotov Medical Institute

1. Complex compounds of cobalt with SCM- and diantripyrilmethane derivatives (methyl-, propyl-, phenyl-, n-tolyl, n- and o-oxyphenyl, dimethyl-n-aminophenyl) have been obtained.  
2. Diantripyril-n-tolylinethane has been used in analysis for the first time.  
3. A photometric method for the determination of cobalt with diantripyrilmethane and its derivatives in some alloys has been suggested.

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14E2c  
11-4E4J  
*for Aug*

PETROV, A.D.; SOKOLOVA, Ye.V.; GAO CHIN-LAN [Kao Ch'ing-lang] (Moskva).

Lithium organic synthesis of hydrocarbons and their oxygen-containing derivatives. Usp. khim. 27 no.12:1471-1503 D '58.  
(MIRA 12:1)

(Lithium organic compounds) (Chemistry, Organic--Synthesis)

SOV/32-25-1-22/51

5(2)

AUTHORS:

Gusev, S. I., Sokolova, Ye. V.

TITLE:

Determination of Beryllium in Iron Alloys (Opredeleniye berilliya v chernykh splavakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 1,  
pp 52 - 52 (USSR)

ABSTRACT:

The quantitative beryllium determination can be carried out by the aid of  $\beta$ -oxy- $\alpha$ -naphthyl aldehyde (Ref 1). The complex compound obtained possesses a relatively high molecular weight, a constant composition and does not decompose on drying. The steel sample (0.1 to 0.3 g) is solved in hydrochloric acid and vaporized. The dried residue is then solved in water, filtered and added to the filtrate Trilon B (with some ammonia). The complex salt is thereupon precipitated with the above-mentioned aldehyde at 70° in the presence of ammonia. The yellow crystalline precipitate is filtered, washed, dried and weighed. Coefficient of equivalence for Be = 0.02565. Steel analysis results are tabulated (Table).

Card 1/2

Determination of Beryllium in Iron Alloys

SOV/32-25-1-22/51

There are 1 table and 1 Soviet reference.

ASSOCIATION: Perm'skiy gosudarstvennyy meditsinskiy institut (Perm' State Medical Institute)

Card 2/2

IOFFE, I.I.; DOBROVOL'SKIY, S.V.; LEVIN, Ya.S.; GRIZIK R.M.;  
KAMBULOVA, V.A.; KRONICH, I.G.; SOKOLOVA, Ye.V.

Similarity of reactions catalyzed by liquid and solid acids.  
Probl. kin. i kat. 10:294-297 '60. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov  
i krasiteley.  
(Acids) (Naphthylamine) (Naphthol)

GUSEV, S.I.; KUMOV, V.I.; SOKOLOVA, Ye.V.

Use of  $\beta$ -hydroxy- $\alpha$ -naphthalic aldehyde in analytical chemistry.  
Trudy kom. anal. khim. 11:82-86 '60. (MIRA 13:10)

1. Permskiy meditsinskiy institut.  
(Naphthaldehyde)

GUSEV, S.I.; KUMOV, V.I.; SOKOLOVA, Ye.V.

Gravimetric semimicro determination of vanadium by means of  
 $\beta$ -hydroxynaphthylalethylamine and  $\beta$ -hydroxynaphthylaldoxime.  
Zhur.anal.khim. 15 no.2:180-183 Mr-Apr '60. (MIRA 13:7)  
(Vanadium--Analysis)

52610

82563

S/080/60/033/06/04/006

AUTHORS: Goryunova, N. A., Kradinova, L. V., Sokolova, V. I., Sokolova, Ye.V.TITLE: A Method of Obtaining High-Purity Arsenic

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 6, pp. 1409-1410

TEXT: Gallium arsenide GaAs is a semiconductor material with a rectifying effect and photoconductivity. Arsenic is usually accompanied by antimony and bismuth which have similar physical and chemical properties, so that their separation from arsenic is difficult. Arsenic trioxide was taken as initial material, therefore, because it does not contain bismuth and only small quantities of Sb, Cu, Al, Ca, Fe, Si and Mn. The purification was carried out in two stages: purification of arsenic trioxide; reduction of the trioxide to arsenic metal. The trioxide was purified by recrystallization from a hydrochloric solution. After complete dissolution of  $As_2O_3$  the hot solution was filtered and then kept for 20-24 hours in a cold place. The crystals formed were reduced by activated coal in a quartz ampoule. The arsenic metal was distilled in a  $10^{-3}$  mm Hg vacuum. At  $300^{\circ}C$  the fraction containing  $As_2O_3$  and at  $450^{\circ}C$  pure arsenic was distilled. On the base of arsenic produced by the method proposed, GaAs can be obtained with a concentration of charge carriers

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A Method of Obtaining High-Purity Arsenic

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$n \approx 10^{16} \text{ cm}^{-3}$ . Further treatment by zone melting and extraction of single crystals produces a material suitable for the application as semiconductor. There is 1 table and 7 references: 2 Soviet, 3 German, 1 English and 1 French.

ASSOCIATION: Leningradskiy fiziko-tekhnikheskiy institut AN SSSR (Leningrad Physico-Technical Institute of AS USSR)

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Card 2/2

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Москва, Университет

Определение содержания серебра в плазме. Научно-исследовательский институт физиологии и гигиены человека и животных (ИФГИ) (М.Р.А. 38:5)

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